Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Continental Resources, Inc.
Well Name/Number: Melvin 3-3H
Location: SWSE Section 3 T23N R55E
County: Richland, MT; Field (or Wildcat) W/C (Bakken Horizontal)
Air Quality
(possible concerns)
Long drilling time: No, 30 to 40 days drilling time.
Unusually deep drilling (high horsepower rig): No, triple derrick drilling rig to drill to
10,194'TVD/20,018'MD.
Possible H2S gas production: Slight.
In/near Class I air quality area: No
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required
<u>under 75-2-211.</u>
Mitigation:
\underline{X} Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other:
Comments: No special concerns – using triple rig to drill to single lateral Bakken
Formation horizontal well.
Water Quality
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(DOSSIDIA CONCANS)
(possible concerns) Salt/oil based mud: Yes freshwater and freshwater mud system on surface hole and oil
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(possible concerns)

Steam crossings: No, stream crossings.
High erosion potential: No, small cut, up to 14.0' and small fill, up to 18.6', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If
productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No. 425'X400' location size required.
Damage to improvements: Slight.
Conflict with existing land use/values: Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stockpile topsoil Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Access will be over existing county road, #328. An access road will be
built from the existing county road, about .4 miles' of new road will be constructed into
this location. Drill cuttings will be disposed of in the lined reserve pit. Invert mud will be
recycled. Completion fluids will be trucked to a commercial Class II for disposal. Pit will
be backfilled after remaining fluids have evaporated. No special concerns
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: Nearest residence is about 1/4 of a mile to the
south and 3/8 of a mile to the northeast of this location.
Possibility of H2S: Slight.
Size of rig/length of drilling time: Triple drilling rig/short 30 to 40 days drilling time.
Mitigation:
X_Proper BOP equipment
Topographic sound barriers
— H2S contingency and/or evacuation plan Special equipment/procedures requirements
Special equipment/procedures requirements Other:
Comments: No concerns. Adequate surface casing and operational BOP stack
should mitigate any problems.
should miligate any problems.
Wildlife/recreation
(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: Fox Lake State Game Management Area about 7 miles to
the south of this location.
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: <u>No</u>
Threatened or endangered Species: None identified.
Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:

Comments: No concerns. Private surface lands.
Historical/Cultural/Paleontological (possible concerns) Proximity to known sites None identified. Mitigation avoidance (topographic tolerance, location exception) other agency review (SHPO, DSL, federal agencies) Other: Comments: Private surface lands. No concerns.
Cosial/Foonemia
Social/Economic (possible concerns)
Substantial effect on tax base
Create demand for new governmental servicesPopulation increase or relocation
Comments: No concerns. A development well in an existing spacing unit.
Remarks or Special Concerns for this site
Well is single lateral Bakken Formation horizontal well.
Summary: Evaluation of Impacts and Cumulative effects
No long term impacts expected from the drilling of this well. Some short term impacts will occur, but will be mitigated in time.
I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/ <u>does not</u>) require the preparation of an environmental impact statement.
Prepared by (BOGC): Thomas Richmond (title:) Administrator Date: Aug. 27, 2013
Other Persons Contacted: Montana Bureau of Mines and Geology, GWIC website.

Richland County water wells. (subject discussed)	
Aug 27, 2013	
(date)	
f location was inspected before permit approval:	
nspection date:nspector:	
Others present during inspection:	